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FORM PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No.: UM-04228	Serial No.: 09/518,895
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary)		Applicant: Kalyan Handique et al.	RECEIVED
		Filing Date: 03/06/00	OCT 14 3 2000 Group Art Unit 143

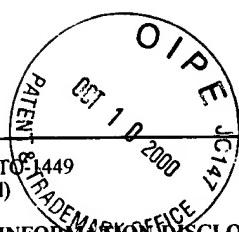
U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No.	Serial / Patent Number	Issue Date	Applicant / Patente	Class	Subclass	Filing Date
	1	3,799,742	3/26/74	Coleman	23	253R	12/20/71
	2	4,439,526	3/27/84	Columbus	436	180	7/26/82
	3	4,457,329	7/03/84	Werley et al.	137	73	12/04/81
	4	4,522,786	6/11/85	Ebersole	422	56	8/10/83
	5	4,599,315	7/08/86	Terasaki et al.	435	301	9/13/83
	6	4,683,195	07/28/87	Mullis et al.	435	6	02/07/86
	7	4,683,202	07/28/87	Mullis et al.	435	91	10/25/85
	8	4,919,892	4/24/90	Plumb et al.	422	58	6/22/89
	9	4,963,498	10/16/90	Hillman et al.	436	69	1/15/88
	10	4,967,950	11/06/90	Legg	228	180.2	10/31/89
	11	5,048,554	9/17/91	Kremer	137	69	9/24/90
	12	5,091,328	02/25/92	Miller	437	52	11/21/89
	13	5,160,945	11/03/92	Drake	346	140	5/10/91
	14	5,192,507	3/09/93	Taylor et al.	422	68.1	3/04/91
	15	5,223,226	6/29/93	Wittmer et al.	422	100	4/14/92
	16	5,252,743	10/12/93	Barrett et al.	548	303.7	11/13/90
	17	5,275,787	1/04/94	Yuguchi et al.	422	82.08	8/17/92
	18	5,304,487	4/19/94	Wilding et al.	435	291	5/01/92
	19	5,364,591	11/15/94	Green et al.	422	58	6/01/92
	20	5,416,000	5/16/95	Allen et al.	435	7.92	11/21/91
	21	5,474,796	12/12/95	Brennan	427	2.13	5/27/93
	22	5,494,639	2/27/96	Grzegorzewski	422	82.01	10/13/94
	23	5,498,392	3/12/96	Wilding et al.	422	68.1	9/19/94
	24	5,533,412	7/09/96	Jerman et al.	73	861.95	6/07/95
	25	5,585,069	12/17/96	Zanzucchi et al.	422	100	11/10/94
	26	5,587,128	12/24/96	Wilding et al.	422	50	11/14/94
	27	5,651,839	7/29/97	Rauf	148	95	10/26/95
	28	5,660,993	8/26/97	Cathy et al.	435	7.9	8/24/94
	29	5,700,637	12/23/97	Southern	435	6	4/19/94

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

	Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
						Yes	No
30	2,672,301	07/08/92	France			X	

Examiner: LUDLOW Date Considered: 11/02

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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(37 CFR § 1.98(b))		Filing Date: 03/06/00	Group Art Unit: 1700

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## OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

31	Marmor and Lane, "Strand Separation and Specific Recombination in Deoxyribonucleic Acids: Biological Studies", <i>Proc.Nat.Acad.Sci., U.S.A.</i> 46:453-461 (1960)
32	Doty <i>et al.</i> , "Strand Separation and Specific Recombination in Deoxyribonucleic Acids:Physical Chemical Studies", <i>Proc.Nat.Acad.Sci., U.S.A.</i> 46:461-477 (1960)
33	Hayashi <i>et al.</i> , "Restriction of in Vivo Genetic Transcription to one of the Complementary Strands of DNA", <i>Proc.Nat.Acad.Sci., U.S.A.</i> 50: 664-671 (1963)
34	Smith and Wilcox, "A Restriction Enzyme from <i>Hemophilus influenzae</i> ", <i>J.Mol.Biol.</i> 51:379-391 (1970)
35	Southern, "Detection of Specific Sequences Among DNA Fragments Separated by Gel Electrophoresis", <i>J.Mol.Biol.</i> 98:503-517 (1975)
36	Maxam and Gilbert, "A new method for sequencing DNA", <i>Proc. Natl. Acad Sci. USA</i> 74:560-564(1977)
37	Sanger <i>et al.</i> , "DNA sequencing with chain-terminating inhibitors", <i>Proc. Natl. Acad Sci. USA</i> 74:5463-5467 (1977)
38	Sambrook, J. <i>et al.</i> , Molecular Cloning, A Laboratory Manual, 2d Ed. Cold Spring Harbor Laboratory Press, New York, 13.7-13.9
39	Hunkapiller, M.W., "Advances in DNA sequencing technology", <i>Curr. Op. Gen. Devl.</i> 1:88-92 (1991)
40	Tabor <i>et al.</i> , "DNA sequence analysis with a modified bacteriophage T7 DNA polymerase", <i>Proc. Natl. Acad. Sci. USA</i> 84:4767-4771 (1987)
41	Innis <i>et al.</i> , "DNA sequencing with <i>Thermus aquaticus</i> DNA polymerase and direct sequencing of polymerase chain reaction-amplified DNA", <i>Proc. Natl. Acad. Sci. USA</i> 85:9436-9440 (1988)
42	J. Pfahler <i>et al.</i> , "Liquid Transport in Micron and Submicron Channels", <i>Sensors and Actuators</i> A21-A23: 431-434 (1990)
43	H.T.G. Van Lintel <i>et al.</i> , "A Piezoelectric Micropump Based on Micromachining of Silicon", <i>Sensors and Actuators</i> 15:153-167 (1988)
44	Smits, "Piezoelectric Micropump with Three Valves Working Peristaltically," <i>Sensors and Actuators</i> A21-A23:203-206 (1990)
45	Mullis and Faloona, "Specific Synthesis of DNA in Vitro via a Polymerase-Catalyzed Chain Reaction," <i>Meth. Enzym.</i> 155:335-350 (1987)
46	Arnheim, "Polymerase Chain Reaction Strategy," <i>Annu. Rev. Biochem.</i> 61:131-156 (1992)
47	Nickerson <i>et al.</i> , "Automated DNA diagnostics using an ELISA-based oligonucleotide ligation assay," <i>Proc. Nat. Acad. Sci. USA</i> 87:8923-8927 (1990)
48	Gordon <i>et al.</i> , "Capillary Electrophoresis," <i>Science</i> 27:224-228 (1988)
49	Lawrence Berkeley Lab Presentation, Park City, Utah (1993)
50	Turner, "New Dimensions in Capillary Electrophoresis Columns," <i>LC-GC</i> vol. 9 (1991)
51	Heller and Tullis, "Microelectrophoresis for the separation of DNA fragments," <i>Electrophoresis</i> 13:512-520 (1992)
52	Manz <i>et al.</i> , "Planar chips technology for miniaturization and integration of separation techniques into monitoring systems Capillary electrophoresis on a chip," <i>J. Chrom.</i> 593:253-258 (1992)
53	Jorgenson and Lukacs, "High-Resolution Separations Based on Electrophoresis and Electroosmosis," <i>J. Chrom.</i> 218:209-216 (1981)
54	Ansorge <i>et al.</i> , "High-throughput automated DNA sequencing facility with fluorescent labels at the European Molecular Biology Laboratory," <i>Electrophoresis</i> 13:616-619 (1992)
55	Pentoney <i>et al.</i> , "A single-fluor approach to DNA sequence determination using high performance capillary electrophoresis," <i>Electrophoresis</i> 13:467-474 (1992)
56	Tenan <i>et al.</i> , "Friction in Capillary Systems," <i>Journal of Applied Physics</i> 53:6687-6692 (1982)
57	Dussan, "On the Spreading of Liquids on Solid Surfaces Static and Dynamic Contact Lines," <i>Annual Review of Fluid Mechanics</i> 11:371-400 (1979)
58	Probstein, "Physicochemical Hydrodynamics," Butterworths Series in Chemical Engineering ed. H. Brenner (1989)
59	R.F. Service, "The Incredible Shrinking Laboratory," <i>Science</i> 268:26-27 (1995)
60	Presentation at Cold Spring Harbor (August 31-September 2, 1995)

Examiner:

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Date Considered: 11/02

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OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)			
61	R. Nowak, "Xeroxing DNA Analysis"		
62	Manz, A. <i>et al.</i> , "Electroosmotic pumping and electrophoretic separations for miniaturized chemical analysis systems" <i>J. Micromech. Microeng.</i> 4:257-265 (1994)		
63	Hieptas, P.B. <i>et al.</i> , "Ultrathin Slab Gel Separations of DNA Using Single Capillary Sample Introduction System" <i>Anal. Chem.</i> , 69:2292-2298 (1997)		
64	Z. Liang <i>et al.</i> , "Microfabrication of a Planar Absorbance and Fluorescence and Fluorescence Cell for Integrated Capillary Electrophoresis Devices," <i>Anal. Chem.</i> 68:1040-1046 (1996)		
65	Wooley and Mathies, "Ultra-High-Speed DNA Sequencing Using Capillary Electrophoresis Chips," <i>Anal. Chem.</i> 67:3676-3680 (1995)		
66	Effenhauser <i>et al.</i> , "Manipulation of Sample Fractions on a Capillary Electrophoresis Chip," <i>Anal. Chem.</i> 67:2284-2287 (1995)		
67	Van der Moolen, J.N. <i>et al.</i> , "A Michromachined Injection Device for CZE: Application to Correlation CZE" <i>Anal. Chem.</i> , 69:4220-4225 (1997)		
68	Chiu <i>et al.</i> "Injection of Ultrasmall Samples and Single Molecules into Tapered Capillaries" <i>Anal. Chem.</i> 69:1801-1807 (1997)		
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